

Module 3: Review and Assessment**Section 3:1:1 Find and estimate square roots.**

Find each value. Round your answers to the nearest TENTH if necessary. (2 points each)

1) $\sqrt{\frac{4}{81}}$

2) $\sqrt{8100}$

3) $\sqrt{27}$

4) $\sqrt[3]{343}$

Section 3:2:1 Evaluate expressions with square roots and fraction bars.

Find each value. Simplify your answer. Round to the nearest HUNDREDETH if necessary. (3 points each)

5) $\frac{3(4) + 21}{\sqrt{102 + 19}}$

6) $\frac{5^2}{4(-3) + 87}$

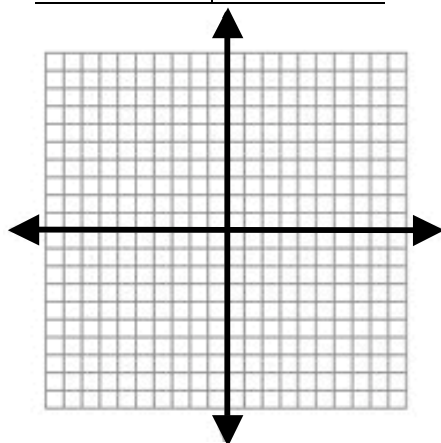
7) $9 + 3\sqrt{15 - 7}$

Section 3:2:2 Graph equations.

Graph each equation using a x-y table. (4 points each)

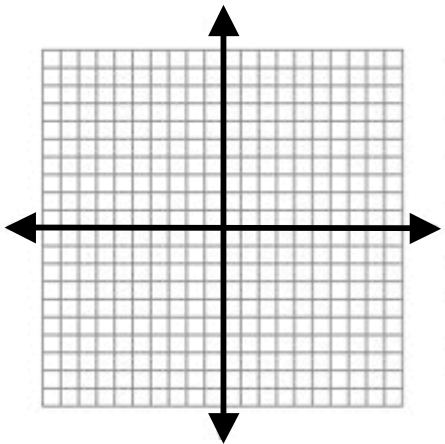
8) $y = -3x$

x	y



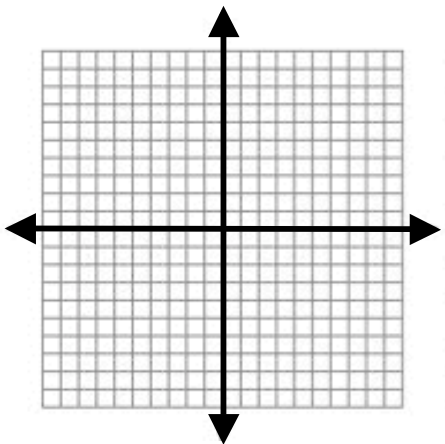
9) $x = -5$

x	y



10) $y = 4x - 2$

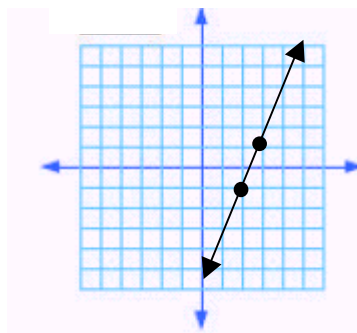
x	y



Section 3:3:1 Find the slope of a line.

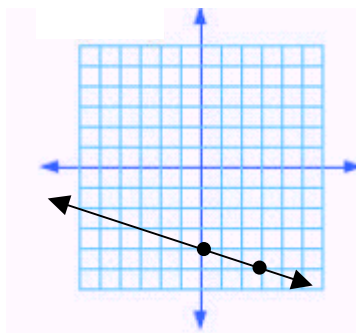
Find the slope of each line. Simplify if needed. (2 points)

11)



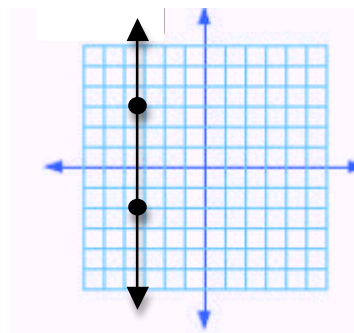
$m =$ _____

12)



$m =$ _____

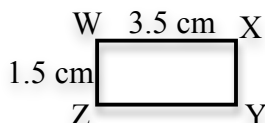
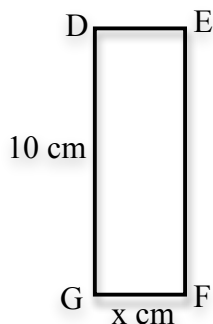
13)



$m =$ _____

Section 3:4:1 Tell whether triangles are similar & make indirect measurements.

If quadrilateral DEFG is similar to quadrilateral XYZW, complete 14 - 18. Round answers to the nearest hundredth. (1 point each)



Complete the following statements.

14) $m\angle G =$ _____

15) $m\angle X =$ _____

16) $\frac{DE}{YZ} = \frac{GD}{YZ}$

17) Find the value of x: (3 pts) _____

Section 3:5:1 Scientific and Decimal Notation

Write each number in scientific notation. (2 points each)

18) About 52,500,000 pet dogs live in the United States.

19) The distance between the cities is about 762 thousand miles.

20) The drop of water took 0.00045 seconds to fall one centimeter.

Write each product in decimal notation. (1 point each)

21) The entrance to Mesa Verde Park is $6.95 \cdot 10^3$ ft above sea level.

22) One light year is approximately $5.88 \cdot 10^{12}$ miles.

23) The temperature on the planet is $3.2 \cdot 10^{-4}$ degrees.
